

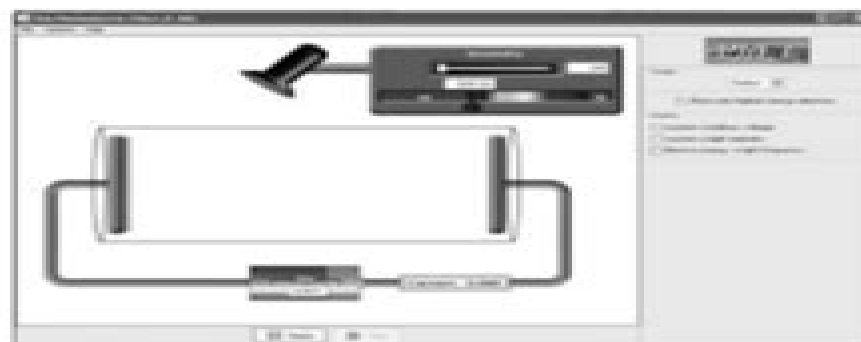
Name: _____

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ACTIVITY: The Photo-Electric Effect

Purpose: To understand the effects of frequency, intensity and potential difference on the photo-electric effect apparatus.

- Go to <http://phet.colorado.edu>.
- Click on **Browse Sims** in the lower right corner.
- From the left menu select **Quantum Phenomena**.
- Click on **The Photoelectric Effect** (on the right side of your screen).
- Click on **Run Now!** to open the simulation. You should see the screen shown at right.



General description of the features of the simulation

- **Intensity slider** (attached to light source) enables you to change the intensity of the external source of electromagnetic radiation from 0% to 100%.
- **Wavelength slider** (attached also to light source) enables you to change the wavelengths of the external radiation from **Infrared (IR; very right)** to **Ultraviolet (UV very left)**.
- **Target menu** (the very top-right side) enables you to change the type of metal (photo-emissive surface) from which the electrons are ejected, for example: sodium, zinc, copper, platinum, or calcium.
- **Potential slider** (attached to the battery, lower part of the diagram) enables you to change the potential difference between the two metal plates from -8.0V to $+8.0\text{V}$. **Note: Red color of the plate indicates a positive terminal, blue indicates a negative terminal.**

Quantum Mechanics The Photoelectric Effect Phet Answers

Jiyuan Zhang



Quantum Mechanics The Photoelectric Effect Phet Answers:

Essential Quantum Mechanics for Electrical Engineers Peter Deák, 2017-02-24 Der Autor dieses Lehrbuchs ist seit über 25 Jahren Dozent für Quantenmechanik in den Fachrichtungen Elektrotechnik und Informatik. Das Fachbuch ist wissenschaftlich fundiert und gut geschrieben, beruht auf einer ausgewogenen Darstellung notwendiger formaler Mathematik und Text. Die Einführung fasst die Grundkonzepte der klassischen Physik zusammen und stellt einige ihrer Vermutungen heraus, die sich aus Phänomenen in Verbindung mit der Lichttechnik ergeben. Diese werden in den darauffolgenden drei Kapiteln ausführlich analysiert. Kapitel 5 geht über das Dualitätsprinzip hinaus und erläutert die Partikelkonzepte der Quantenmechanik sowie deren Folgen für die Elektrotechnik. In den Kapiteln 6 bis 8 werden die mathematischen Grundkonstruktionen beschrieben, mit denen sich der Zustand von Partikeln und deren Eigenschaften ableiten und vorhersagen lassen. Die beiden weiteren Kapitel zeigen zwei Beispiele hierfür mit Anwendungen von LEDs, Infrarotdetektoren, Quantenkaskadenlasern, Zener-Dioden und Flash-Speichern. In den letzten Kapiteln werden die Folgen der Quantenmechanik für die chemischen Eigenschaften von Atomen und anderen aus vielen Elektronen bestehenden Systemen erörtert, abgerundet durch einen kurzen Einblick in die möglichen Hardwarekomponenten für die Quanteninformationsverarbeitung. Zu den vielfältigen didaktischen Merkmalen gehören auch Lernziele, Kapitelzusammenfassungen, Fragen zur Selbstüberprüfung sowie Problemlösungen. In den beiden Anhängen sind die notwendigen Kenntnisse der klassischen Physik und Mathematik zusammengefasst.

College Physics Textbook Equity Edition Volume 3 of 3: Chapters 25 - 34 An OER from Textbook Equity, 2014-01-14 This is volume 3 of 3 black and white of College Physics originally published under a CC BY license by Openstax College, a unit of Rice University. Links to the free PDFs of all three volumes and the full volume are at <http://textbookequity.org>. This text is intended for one-year introductory courses requiring algebra and some trigonometry but no calculus. College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications. The analytical aspect of problem solving is tied back to the conceptual before moving on to another topic. Each introductory chapter, for example, opens with an engaging photograph relevant to the subject of the chapter and interesting applications that are easy for most students to visualize.

Physics Teacher Education Joan Borg Marks, Pauline Galea, 2023-12-21 This book focuses on some important aspects of Physics Education: the role of metaphors in Physics teaching and learning; the connections between Physics and Mathematics; the interaction of young children with Physics at the primary level; and recent developments in teacher education in the USA. Contributors present their research related to Preparing teachers for TPACK: technological, pedagogical, and content knowledge; and laboratory work. Developing and evaluating teacher PCK: pedagogical content knowledge in Quantum Mechanics. In-service Physics teacher education for early childhood and primary levels. Pre-service Physics teacher education at all levels. In-service Physics teacher professional learning for second and higher level education. Chapters in this book inevitably look into how Physics teacher education is

organized in different countries. Suggestions are offered for possible ways of supporting Physics teachers learning. An emphasis is made on the much needed measurements of the effectiveness of different teaching strategies that improve teaching for learning. All this should help professionals, researchers and pre-service as well as in-service teachers to get acquainted with the most recent research contributions in the field.

Teaching Einsteinian Physics in Schools

Magdalena Kersting, David Blair, 2021-08-30. In our world today, scientists and technologists speak one language of reality. Everyone else, whether they be prime ministers, lawyers or primary school teachers, speak an outdated Newtonian language of reality. While Newton saw time and space as rigid and absolute, Einstein showed that time is relative; it depends on height and velocity, and that space can stretch and distort. The modern Einsteinian perspective represents a significant paradigm shift compared with the Newtonian paradigm that underpins most of the school education today. Research has shown that young learners quickly access and accept Einsteinian concepts and the modern language of reality. Students enjoy learning about curved space, photons, gravitational waves and time dilation; often they ask for more. A consistent education within the Einsteinian paradigm requires rethinking of science education across the entire school curriculum, and this is now attracting attention around the world. This book brings together a coherent set of chapters written by leading experts in the field of Einsteinian physics education. The book begins by exploring the fundamental concepts of space, time, light and gravity, and how teachers can introduce these topics at an early age. A radical change in the curriculum requires new learning instruments and innovative instructional approaches. Throughout the book, the authors emphasise and discuss evidence-based approaches to Einsteinian concepts, including computer-based tools, geometrical methods, models and analogies, and simplified mathematical treatments. *Teaching Einsteinian Physics in Schools* is designed as a resource for teacher education students, primary and secondary science teachers, and for anyone interested in a scientifically accurate description of physical reality at a level appropriate for school education.

Nomination of Carl E. Wieman, Ph.D., to be Associate Director for Science, Office of Science and Technology Policy, Executive Office of the President, United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 2011.

Methods of Experimental Physics, 1961

Physics Peter

Lindenfeld, Suzanne White Brahmia, 2011-03-02. Today's physics textbooks have become encyclopedic, offering students dry discussions, rote formulas and exercises with little relation to the real world. *Physics: The First Science* takes a different approach by offering uniquely accessible, student-friendly explanations, historical and philosophical perspectives, and mathematics in easy-to-comprehend dialogue. It emphasizes the unity of physics and its place as the basis for all science. Examples and worked solutions are scattered throughout the narrative to help increase understanding. Students are tested and challenged at the end of each chapter with questions ranging from a guided review designed to mirror the examples to problems, reasoning skill building exercises that encourage students to analyze unfamiliar situations, and interactive simulations developed at the University of Colorado. With their experience instructing both students and teachers of physics,

for decades Peter Lindenfeld and Suzanne White Brahmia have developed an algebra based physics book with features to help readers see the physics in their lives Students will welcome the engaging style condensed format and economical price

2006 Physics Education Research Conference Laura McCullough, Paula Heron, Leon Hsu, 2007-03-05 Syracuse New York

26 27 July 2006 **Nuclear Science Abstracts** ,1972 *Nuclear Science Abstracts* ,1972

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